



## PATENT ATTORNEY DOCKET NO. 50318/011001

Certificate of Mailing: Date of Deposit: March 31, 2006

I hereby certify under 37 C.F.R. § 1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated above and is addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 2231371450.

Jeremy Waterman

Printed name of person mailing correspondence

ignature of person mailing correspondence

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:

Olli Vuolteenaho et al.

Art Unit:

Not Yet Assigned

Serial No.:

10/562,081

Examiner:

Not Yet Assigned

Filed:

December 23, 2005

Customer No.:

21559

Title:

Assay

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

## <u>INFORMATION DISCLOSURE STATEMENT</u>

Applicants submit the references listed on the enclosed Form PTO-1449, copies of which are enclosed, with the exception of U.S. patents.

Submission of this statement is not a representation that a search has been made, nor is the inclusion of information in this statement an admission that the information is material to patentability.

Applicants note that WO 95/28952, WO 00/19207, and WO 00/45176, which are listed on the enclosed Form PTO 1449, are in the German language. Applicants submit the English language abstracts of these documents as the concise explanations of the relevance of these documents, pursuant to 37 C.F.R. 1.98(a)(3)(i).

This statement is being filed before the receipt of a first Office action on the merits.

If there are any charges or any credits, please apply them to Deposit Account No. ; 03-2095.

Respectfully submitted,

Date: March 30, 2006

Susan M. Michaud, Ph.D.

Reg. No. 42,885

Clark & Elbing LLP 101 Federal Street Boston, MA 02110

Telephone: 617-428-0200 Facsimile: 617-428-7045

APR 0 3 2006

BARADENIA SUBSTIT

Attorney Docket No. 50318/011001 SUBSTITUTE FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (MODIFIED) PATENT AND TRADEMARK OFFICE 10/562,081 Serial No. Applicant Olli Vuolteenaho et al. INFORMATION DISCLOSURE STATEMENT BY APPLICANT Filing Date December 23, 2005 (Use several sheets if necessary) Group Not Yet Assigned (37 C.F.R. § 1.98(b)) **IDS Filed** March 31, 2006

			U.S. PATENT DOCUMENTS		-	
Examiner's Initials	Document Number	Publication Date	Patentee or Applicant	Class	Subclass	Filing Date (If Appropriate)
	5,747,274	05/05/98	Jackowski			
	6,124,430	09/26/00	Mischak et al.			
	6,461,828	10/08/02	Stanton et al.			
	FORE	EIGN PATENT	OR PUBLISHED FOREIGN PATENT A	PPLICATIO	N	
Examiner's Initials	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation (Yes/No)
	EP 0 393 640	10/24/90	EP			
	EP 0 542 255	05/19/93	EP			
	EP 0 648 228	11/04/98	EP			
	EP 1 118 329	07/25/01	EP			
	WO 87/06938	11/19/87	WIPO			
	WO 91/00292	01/10/91	WIPO			
	WO 93/24531	12/09/93	WIPO			
	WO 95/28952	11/02/95	WIPO			Yes (abstract)
	WO 00/19207	04/06/00	WIPO			Yes (abstract)
	WO 00/35951	06/22/00	WIPO			
	WO 00/45176	08/03/00	WIPO			Yes (abstract)
	WO 02/74234	09/26/02	WIPO			
	OTHER DOC	JMENTS (INCL	UDING AUTHOR, TITLE, DATE, PLAC	E OF PUB	LICATION)	
	"Atrial Natriuretic Peptide Receptor A Precursor," Swiss-Prot ID ANPA_HUMAN Standard; PRT; 1061 AA; AC P16066; April 1, 1990.					
	"Atrial Natriuretic Peptide Receptor B Precursor," Swiss-Prot ID ANPB_HUMAN Standard; PRT; 1047 AA; AC P20594, O60871, Q9UQ50; Feb 1, 1991.					

## **EXAMINER**

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this  $^{\text{V}}$  form with the next communication to applicant.

SUBSTITUTE FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE	Attorney Docket No.	50318/011001	
(MODIFIED)	PATENT AND TRADEMARK OFFICE	Serial No.	10/562,081	
		Applicant	Olli Vuolteenaho et al.	
STATEMEN	ON DISCLOSURE T BY APPLICANT	Filing Date	December 23, 2005	
(Use several sheets if necessary)		Group	Not Yet Assigned	
(37 C.F.R. § 1.98(b))		IDS Filed	March 31, 2006	

Remes et al., "Validity of Clinical Diagnosis of Heart Failure in Primary Health Care," Eur. Heart J. 12:315-321, 1991.
 Omland et al., "N-Terminal Pro-B-Type Natriuretic Peptide and Long-Term Mortality in Acute in Coronary Syndromes," Circulation 106:2913-2918, 2002.
McDonagh et al., "Symptomatic and Asymptomatic Left-Ventricular Systolic Dysfunction in an Urban Population," Lancet 350:829-833, 1997.
 Masson et al., "Comparative Measurement of N-Terminal Pro-Brain Natriuretic Peptide and Brain Natriuretic Peptide in Ambulatory Patients with Heart Failure," Clin. Chem. Lab Med. 40:761-763, 2002.
Mair et al., "The Impact of Cardiac Natriuretic Peptide Determination on the Diagnosis and Management of Heart Failure," Clin. Chem. Lab Med. 39:571-588, 2001.
Kohse et al., "Quantitative Determination of Natriuretic Peptides in Human Biological Samples with a Bioassay Using Cultured Cells," Eur. J. Clin. Chem. Clin. Biochem. 30: 837-845, 1992.
Kannel et al., "Changing Epidemiological Features of Cardiac Failure," Br. Heart J. 72 (Supplement):3-9, 1994.
Hira et al., "Immunoactive Iso-ANP/BNP in Plasma, Tissues and Atrial Granules of the Rat," Regulatory Peptides 44: 1-9, 1993.
Hasegawa et al., "Light and Electron Microscopic Localization of Brain Natriuretic Peptide in Relation to Atrial Natriuretic Peptide in Porcine Atrium," Circulation 84:1203-1209, 1991.
Dzimiri et al. "Differential Regulation of Atrial and Brain Natriuretic Peptides and its Implications for the Management of Left Ventricular Volume Overload," Eur. J. Clin. Invest. 32:563-569, 2002.
Drewett et al., "The Family of Guanylyl Cyclase Receptors and Their Ligands," Endocrine Reviews 15:135-162, 1994.
Donald et al., "Immunohistochemical Localisation of Natriuretic Peptides in the Heart and Brain of the Gulf Toadfish <i>Opsanus beta</i> ," Cell Tissue Res. 269:151-158, 1992.
De Lemos et al., "The Prognostic Value of B-Type Natriuretic Peptide in Patients with Acute Coronary Syndromes," N. Engl. J. Med. 345:1014-1021, 2001.
Daly et al., "Natriuretic Peptides in the Diagnosis of Heart Disease - First Amongst Equals?" Int. J. Cardiol. 84:107-113, 2002.
Clerico et al., "Circulating Levels of Cardiac Natriuretic Peptides (ANP and BNP) Measured by Highly Sensitive and Specific Immunoradiometric Assays in Normal Subjects and in Patients with Different Degrees of Heart Failure," J. Endocrinol. Invest. 21:170-179, 1998.
Buckley et al., "Plasma Concentrations and Comparisons of Brain Natriuretic Peptide and Atrial Natriuretic Peptide in Normal Subjects, Cardiac Transplant Recipients and Patients with Dialysis-Independent or Dialysis-Dependent Chronic Renal Failure," Clin. Sci. 83:437-444, 1992.

EXAMINER	DATE CONSIDERED	
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.		

SUBSTITUTE FORM PTO-1449	U.S. DEPARTMENT OF COMMERCE	Attorney Docket No.	50318/011001	
(MODIFIED)	PATENT AND TRADEMARK OFFICE	Serial No.	10/562,081	
		Applicant	Olli Vuolteenaho et al.	
STATEMEN	ON DISCLOSURE T BY APPLICANT	Filing Date	December 23, 2005	
(Use several sheets if necessary)		Group	Not Yet Assigned	
(37 C.F.R. § 1.98(b))	2	IDS Filed	March 31, 2006	

	Sagnella, "Measurement and Significance of Circulating Natriuretic Peptides in Cardiovascular Diseases," Clin. Sci. 95:519-529, 1998.
	Struthers, "Ten Years of Natriuretic Peptide Research; a New Dawn for their Diagnostic and Therapeutic Use," BMJ 308:1615-1619, 1994.
	Takemura et al., "Expression of Atrial and Brain Natriuretic Peptides and Their Genes in Hearts of Patients with Cardiac Amyloidosis," JACC 31: 254-265, 1998.
	Talwar et al., "Towards a Blood Test for Heart Failure: the Potential Use of Circulating Natriuretic Peptides," Br. J. Clin. Pharmacol. 50:15-20, 2000.
	Troughton et al., "Treatment of Heart Failure Guided by Plasma Aminoterminal Brain Natriuretic Peptide (N-BNP) Concentrations," Lancet 355:1126-1130, 2000.
	Wilkins et al., "The Natriuretic-Peptide Family," Lancet 349:1307-1310, 1997.
	Yasue et al., "Localization and Mechanism of Secretion of B-Type Natriuretic Peptide in Comparison with those of A-Type Natriuretic Peptide in Normal Subjects and Patients with Heart Failure," Circulation 90:195-203, 1994.
	Yoshimura M et al., "Different Secretion Patterns of Atrial Natriuretic Peptide and Brain Natriuretic Peptide in Patients with Congestive Heart Failure," Circulation 87:464-469, 1993.
	International Preliminary Report on Patentability for PCT/EP2004/006971.
<del></del>	
L	1

EXAMINER	DATE CONSIDERED
EXAMINER: Initial citation considered. Draw line through citation	if not in conformance and not considered. Include copy of this

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with the next communication to applicant.